



FLIRT AKKU 2-CAR UNIT

Lokaltog A/S, Region Zealand, Denmark

Battery-powered Stadler electrical multiple units.

Stadler is strengthening its presence in Denmark by delivering 14 FLIRT Akku 2-car Battery-Electric Multiple Units (BEMU) to Lokaltog A/S. These advanced green technology trains are for operation in Region Zealand on the Tølløsebanen and Østbanen lines, with the potential to extend services to e.g. Lollandsbanen and Odsherredsbanen. This order underscores Stadler's commitment to sustainable mobility and innovation in the rail industry.

Stadler is the market leader in supplying battery-powered trains worldwide. The FLIRT Akku, a flagship product, represents a state-of-the-art, emission-free solution designed to offer a superior and environmentally friendly travel experience. Passengers will benefit from a comfortable and smooth ride on the FLIRT Akku, which operates at a maximum speed of at least 120 km/h in battery mode and 160 km/h under catenary. The train's design fully supports accessibility, featuring low-floor entry for easy boarding, wide doors with automatic gap bridges, and designated spaces for wheelchairs. Additionally, the train is equipped with a semi-automatic ramp for wheelchair users. Denmark shows a high degree of non-electrified lines in its network. The Flirt Akku can operate as electric multiple unit under catenary and will use the battery on the non-electrified sections.

Stadler Rail Group

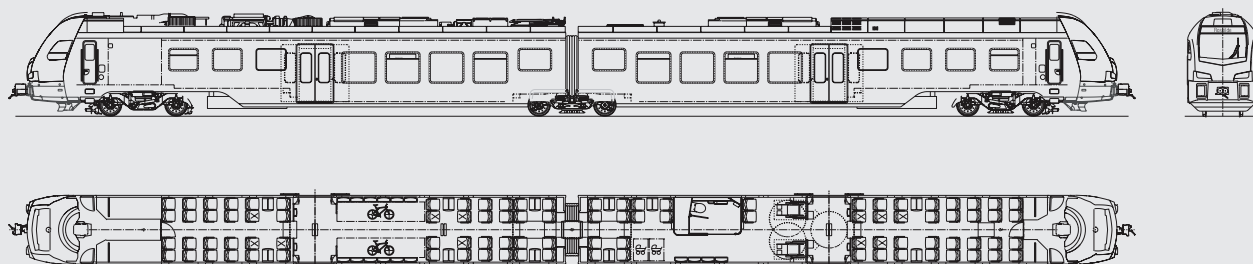
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STADLER



Technical features

Technology

- Lightweight aluminium carbody
- Air-suspension
- Catenary operation with 25 kV and catenary-free operation with the lithium-ion traction battery
- Fast charging of the traction battery via 25 kV catenary
- Water cooled IGBT converters

Comfort

- Air-conditioned passenger compartments and driver's cab
- Modern interior layout with comfortable seats, armrests and electric sockets
- Generously designed multifunctional compartments at all entrance areas
- Space for bicycles and wheelchairs
- All doors are equipped with automatic sliding steps
- Semi-automatic ramp for wheelchair users
- Universal toilet
- WLAN access
- Modern passenger information system
- Space for 10 bicycles and 2 wheelchairs

Personnel

- Ergonomically designed drivers cab
- Easy cleaning thanks to high-grade materials and cantilever seating

Reliability / Availability / Maintainability / Safety

- High redundancy
- Vehicle control system with train bus and on-board failure diagnostic computer
- Video surveillance
- Equipped with European Train Control System
- Excellent maintainability, technical installations on the roof and behind the driver's cab

Vehicle data

Customer	Lokaltog A/S
Operated networks	Tølløsebanen, Østbanen with a possible extension to e.g. the Lollandsbanen and Odsherredsbanen
Gauge	1,435 mm
Designation	FLIRT Akku EMU 2
Supply voltage	25 kV AC
Axle arrangement	Bo'2'2'
Number of vehicles	14 + 10
Delivery	2027 - 2028
Seats	2. class: 94 Tip-up seats: 16
Standing spaces (4/m²)	145
Floor height	550 mm
Entrance width	1,300 mm
Longitudinal force	1,500 kN
Length over coupling	45,700 mm
Vehicle width	2,820 mm
Vehicle height	4,275 mm
Bogie wheelbase	2,700 mm
Driving wheel diameter	870 mm
Carrying wheel diameter	870 mm
Maximum power at wheel	1,500 kW
Maximum speed	160 km/h